

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

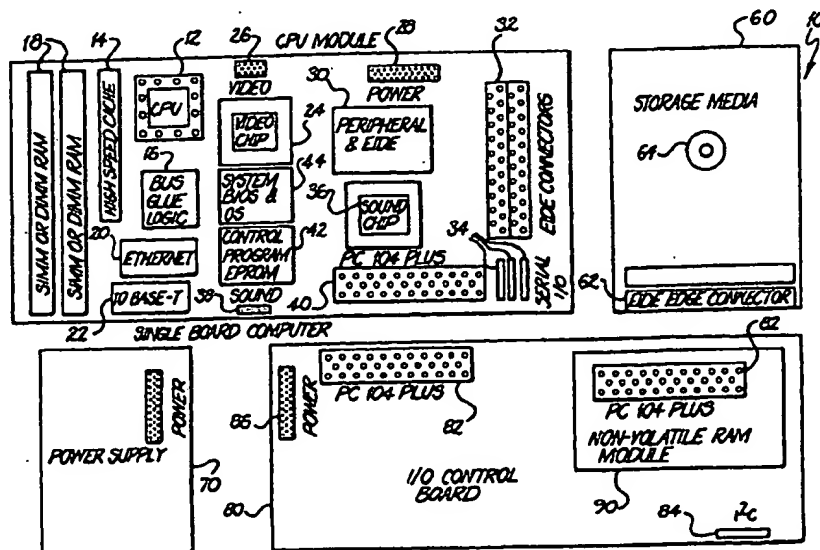
(51) International Patent Classification 6 : A63F 5/04, 9/24		A1	(11) International Publication Number: WO 99/65579 (43) International Publication Date: 23 December 1999 (23.12.99)
(21) International Application Number: PCT/AU99/00486 (22) International Filing Date: 17 June 1999 (17.06.99) (30) Priority Data: 60/089,654 17 June 1998 (17.06.98) US (71) Applicant (for all designated States except US): ARISTOCRAT LEISURE INDUSTRIES PTY. LTD. (AU/AU); 71 Longueville Road, Lane Cove, NSW 2066 (AU). (72) Inventor; and: (75) Inventor/Applicant (for US only): BOND, Eugene, Thomas (US/US); 6329 Lena King Avenue, Las Vegas, NV 89120 (US). (74) Agent: F.B. RICE & CO.; 605 Darling Street, Balmain, NSW 2041 (AU).		(81) Designated States: AU, JP, NZ, US, ZA, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With international search report.	

(54) Title: SOFTWARE VERIFICATION AND AUTHENTICATION

(57) Abstract

A device for controlling electronic gaming machines comprises a single board computer (SBC) having a microprocessor, memory means, storage means and a ROM (Read Only Memory). The ROM includes: a loader program; verification program; an authentication program; and a presentation program. Additional Mass storage media in communication with the SBC store pre-verified and approved gaming software (program files) and related data files, each of which have a verification signature appended to them. Prior to usage of the gaming software, the program file software or data file is

retrieved by the loader program and checked by the verification program which compares the verification signature with a newly calculated verification signature. If the newly calculated signature matches the verification signature, the requested file is deemed to be intact (a validated image). The verification processes ensure that the file has been retrieved in its entirety and is free from corruption caused by storage media faults. If any corruption has occurred, the control device displays an error and the process is halted. After verification, all pending requests for authorization from authentication agents are processed by a queuing means. Each request includes a set of authentication instructions and a reply destination. After queuing, an authentication interpreter processes the validated image pursuant to the requester's instruction. The presentation program reports the resulting authentication identification to the requested destination which either acknowledges or refuses authentication. If acknowledged, the image is used or executed. If refused, an error is displayed and the process is halted.



FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav Republic of Macedonia	TM	Turkmenistan
BF	Burkina Faso	GR	Greece	ML	Mali	TR	Turkey
BG	Bulgaria	HU	Hungary	MN	Mongolia	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MR	Mauritania	UA	Ukraine
BR	Brazil	IL	Israel	MW	Malawi	UG	Uganda
BY	Belarus	IS	Iceland	MX	Mexico	US	United States of America
CA	Canada	IT	Italy	NE	Niger	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NL	Netherlands	VN	Viet Nam
CG	Congo	KE	Kenya	NO	Norway	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NZ	New Zealand	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's Republic of Korea	PL	Poland		
CM	Cameroon	KR	Republic of Korea	PT	Portugal		
CN	China	KZ	Kazakhstan	RO	Romania		
CU	Cuba	LC	Saint Lucia	RU	Russian Federation		
CZ	Czech Republic	LJ	Liechtenstein	SD	Sudan		
DE	Germany	LK	Sri Lanka	SE	Sweden		
DK	Denmark	LR	Liberia	SG	Singapore		
EE	Estonia						